PM Crew Served Weapons Overview

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PEO SOLDIER
Activated 7 June 2002
Colonel (P) Jamey Moran
Program Executive Officer
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PM Soldier Weapons
Activated 2 August 2002
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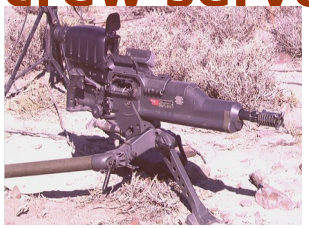
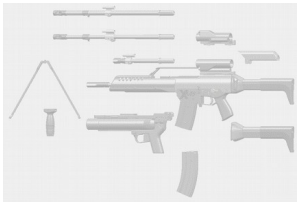
PM Soldier Weapons Mission

Guarantee U.S. Soldiers have an ***overmatch*** in individual and **crew served weapons** capabilities on present and future battlefields.



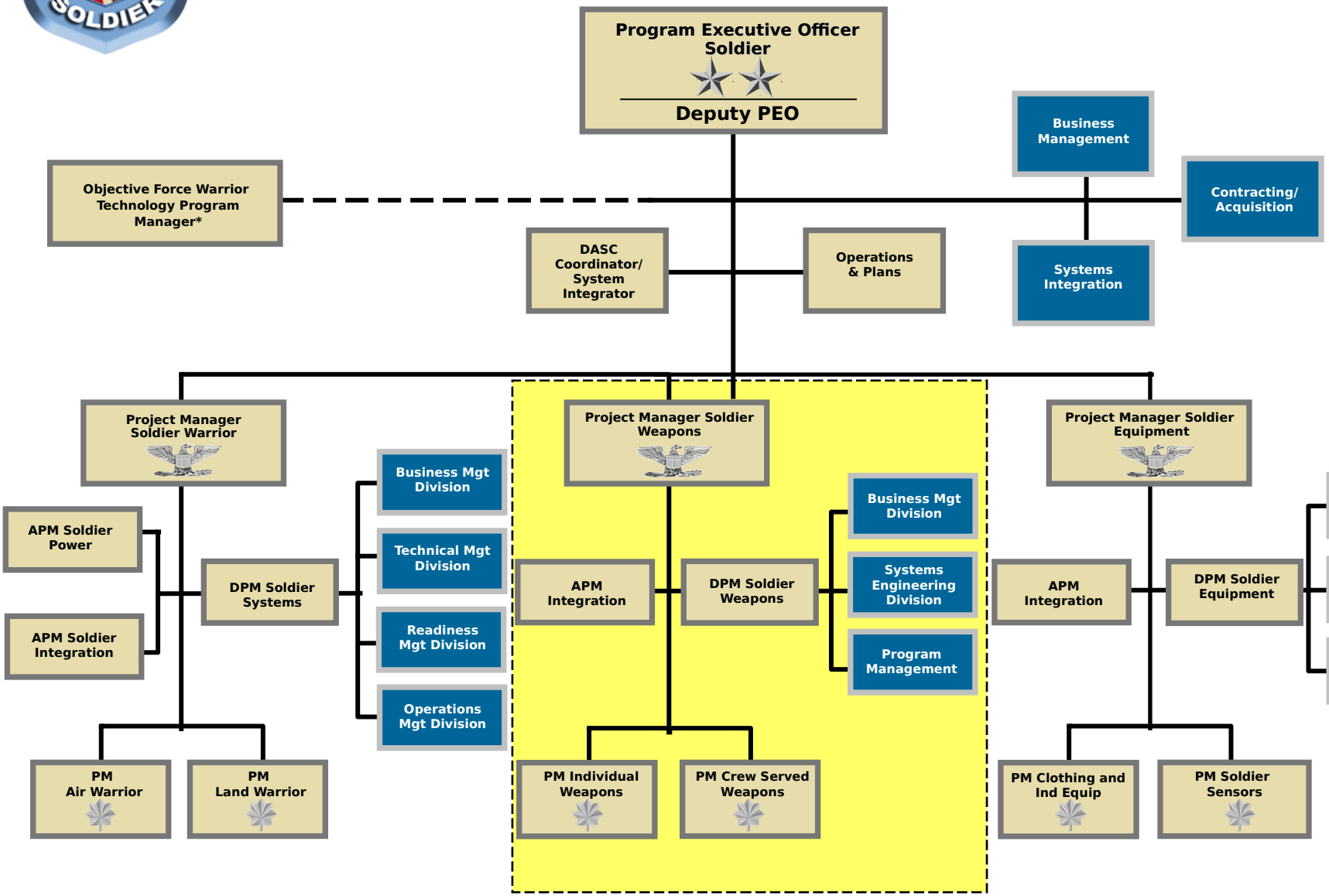


Maintain individual and crew served weapons' ***readiness*** for the Army through intensive management of the full acquisition life cycle.

Be ***immediately responsive*** to the Soldier's wartime individual and **crew served weapons** requirements.

Ensure interoperability with Soldier System programs to achieve the goals of the Objective Force Soldier.

Program Executive Office Soldier

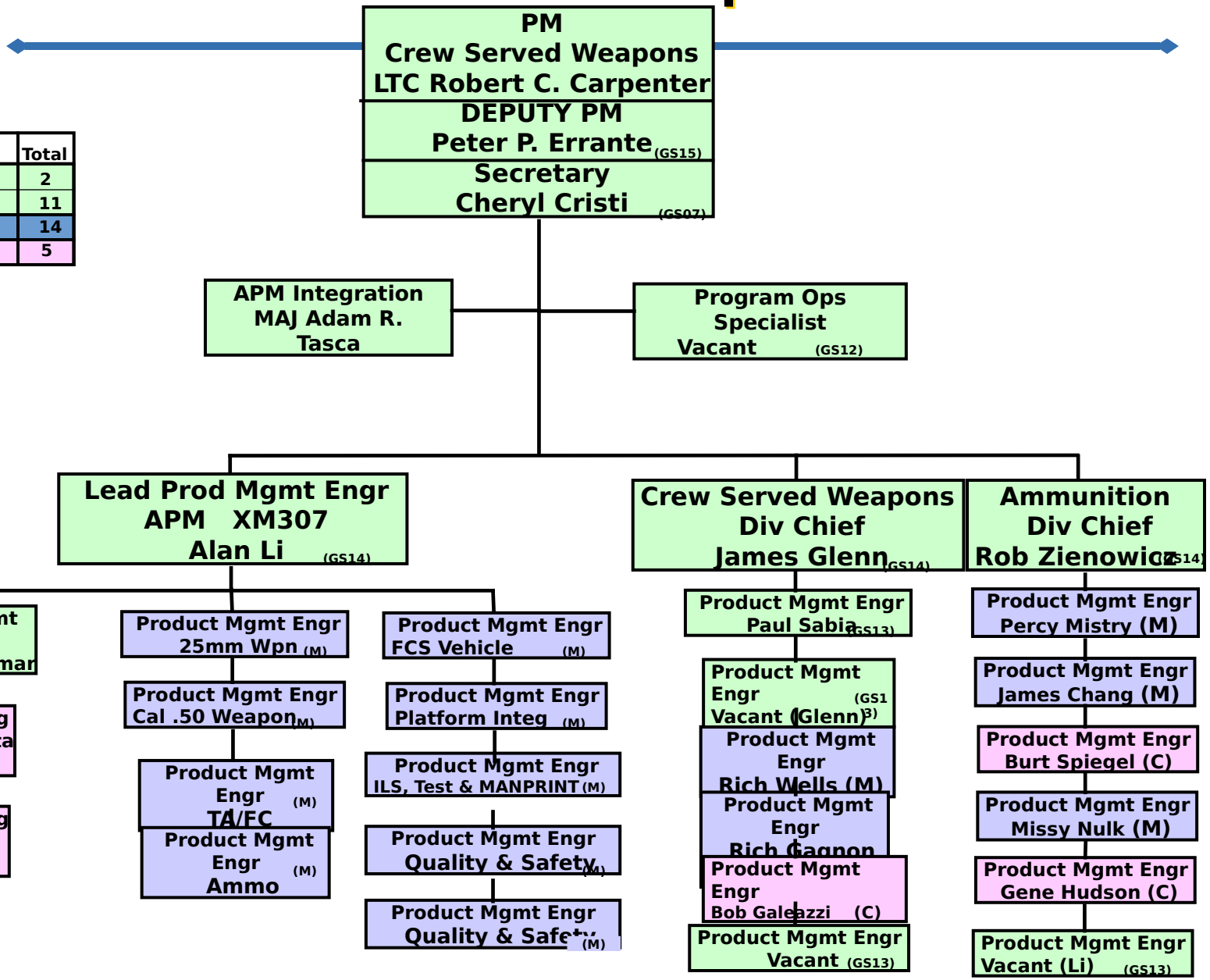


* Dual Reporting NSC/PEO

As of: 13 December 2002

Product Manager
Crew Served Weapons

		Total
Military		2
Core Civilian		11
Matrix Civilian		14
Contractor		5



PM Soldier Weapons Programs List

RDT&E

ACAT II Programs

1. XM29
2. **XM307**

WPN Soldier Enhancement Programs (SEP)

3. **XM107, Semi Automatic Long Range Sniper Rifle**
4. **Combat Ammo Pack (CAP) for the M240B**
5. Grenade Launcher Rail System for M203
6. Collapsible Buttstock for M240 Machine Gun
7. 9mm Pistol Rail system for M9

WPN BLOCK MOD Programs

8. **XM192, Light Weight Ground Mount for MG**
9. **Bipod Handguard for the M249**
10. **Barrel Life Extension for the M249**
11. M4/M16 Improvements
12. **M240E5, 7.62mm MG (Aviation Version)**

Congressionally Funded Programs

13. CROWS, Remote Mount

AMMO SEP Programs

14. **XM1022, Long Range Tactical Sniper Cartridge**
15. **XM1041/XM1042 Close Combat Mission Capability Kit**
16. **XM102 Reloadable Fuze for M84**
17. **Hand Thrown Sting Ball Grenade**
18. **12 Gauge Extended Range Non Lethal Cartridge**

AMMO BLOCK MOD Programs

19. **XM1037, Short Range Training Round for M249**

AMMO Foreign Collaborative Technology Programs

20. **DUD Reducing 40MM M430A1 (FCT)**

PROCUREMENT

WPN Production Programs

21. **M240B, 7.62 Medium Machine Gun**
    - **A. M240 Mod Line**
22. M16A4 Rifle
    - A. M16A4 Mod Line
23. M4 Carbine
    - A. M4 Mod Line
24. **M249 SAW**
    - **A. M249 Mod Line**
25. **MK19**
    - **A. MK19 MOD Line**
26. **Sniper Accessory Kit**

WPN MODS Programs

27. **Machine Gun Optics**
28. **Stabilized Bino**

AMMO Production Programs

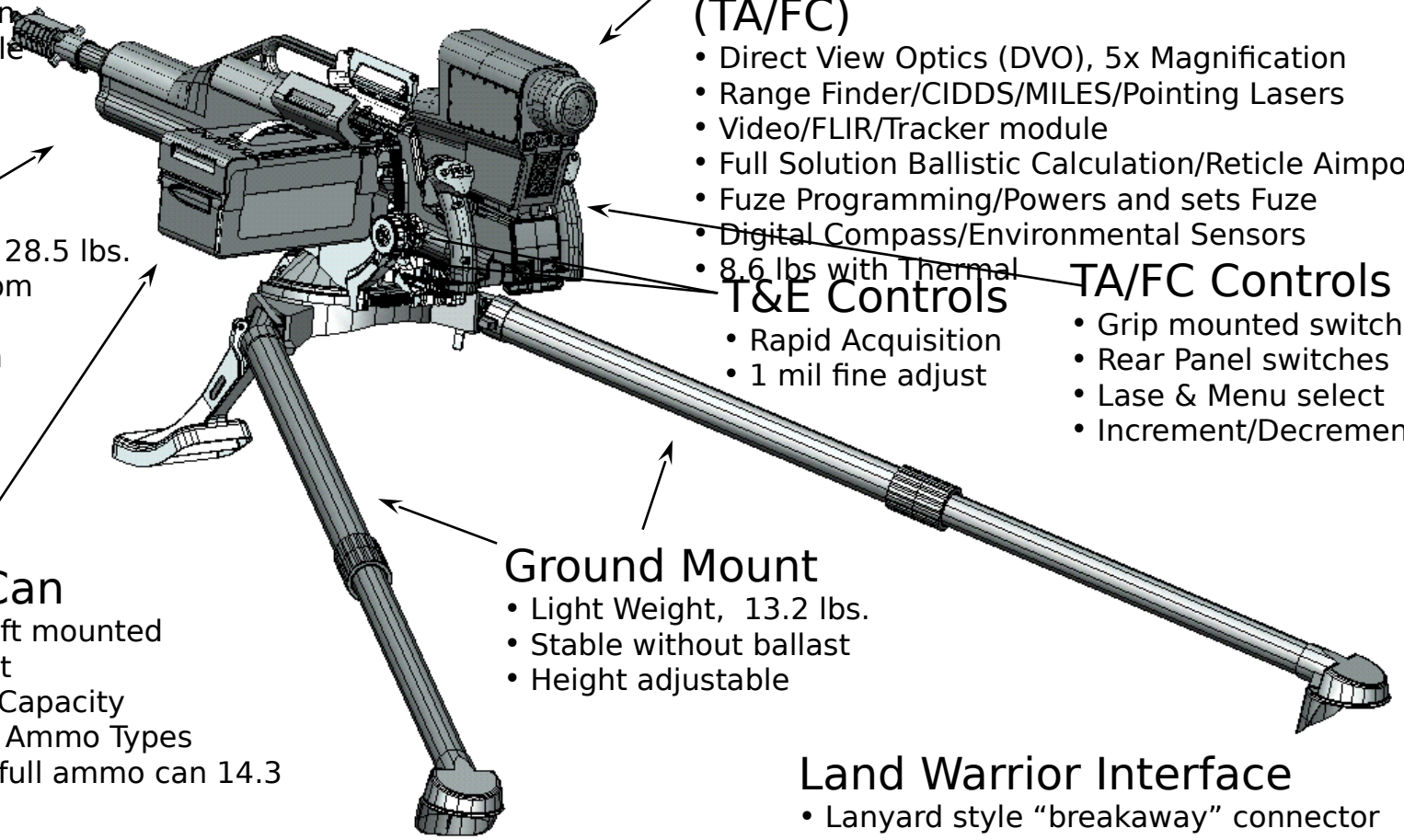
29. **M995, 5.56mm Armor Piercing**
30. **M993, 7.62mm Armor Piercing**
31. **M84 Stun Grenade**
32. **M903/M962 Cal .50 SLAP/SLAPT**
33. **71012/M1013, 12 Gauge NL Point and Crowd Control**
34. **M973/M974 7.2 Short Range Training Ammo**
35. **M1006, Non Lethal 40mm Round**
36. **M1001, 40mm Canister Round**
37. **M1029, 40mm Crowd Dispersal Cartridge**
38. **M67 Frag Hand Grenade PIP for EM Fuze**
39. **Enhanced Pyro (EP) Fuze for M67 Hand Grenade**
40. **M100, Grenade Rifle Entry Munition (GREM)**

XM307 System

Muzzle Device
- Flash Suppression
- Inherently Reliable

Fuze Setter Contacts

Target Acquisition Fire Control (TA/FC)
- Direct View Optics (DVO), 5x Magnification
- Range Finder/CIDDS/MILES/Pointing Lasers
- Video/FLIR/Tracker module
- Full Solution Ballistic Calculation/Reticle Aimpoint
- Fuze Programming/Powers and sets Fuze
- Digital Compass/Environmental Sensors
- 8.6 lbs with Thermal



Weapon
- Light Weight, 28.5 lbs.
- 25mm, 260 spm
- Soft Recoil
- Gas Operation

T&E Controls
- Rapid Acquisition
- 1 mil fine adjust

TA/FC Controls
- Grip mounted switches
- Rear Panel switches
- Lase & Menu select
- Increment/Decrement

Ammo Can
- Right or left mounted
- Linked Belt
- 31 Round Capacity
- All XM307 Ammo Types
- Weight of full ammo can 14.3 lbs.

Ground Mount
- Light Weight, 13.2 lbs.
- Stable without ballast
- Height adjustable

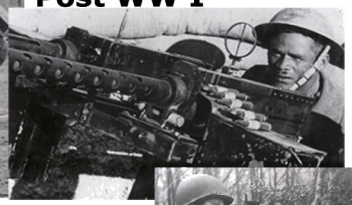
Land Warrior Interface
- Lanyard style “breakaway” connector
- Power, data and video over interface
- Compliant to LW requirements

XM307 Firing

“GrandMa Deuce” 1933 – 2003

Requesting Retirement After a Legacy of 80 Years of Faithful Service

Post WW I



WW II

Korea

Vietnam

Grenada

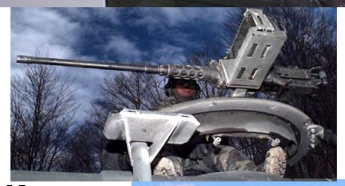
Panama

Kuwait

Somalia

Haiti

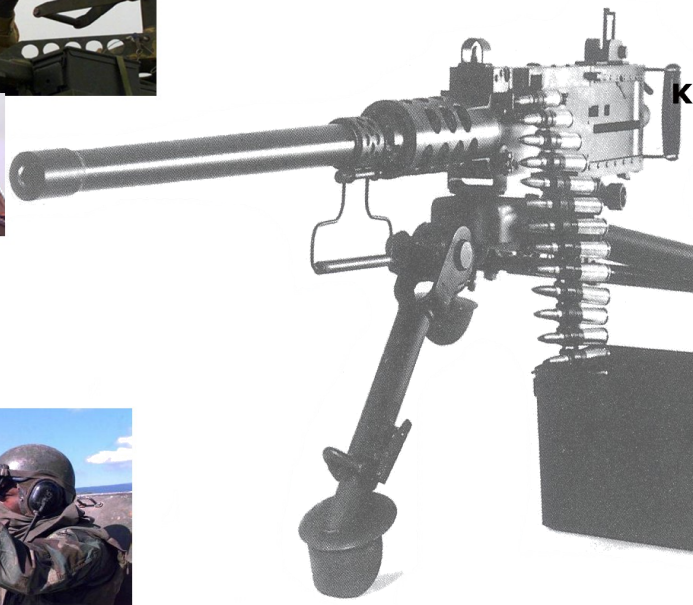
Bosnia



Kosovo

Afghanistan

Iraq

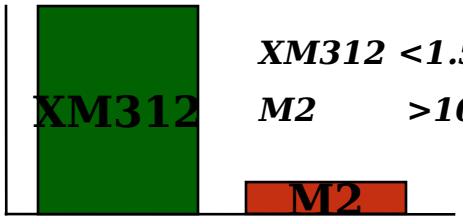


Introducing the XM-312: Not Your Great-Grandfather’s Machine Gun

XM312 Firing

XM312 Comparison to M2 HMG

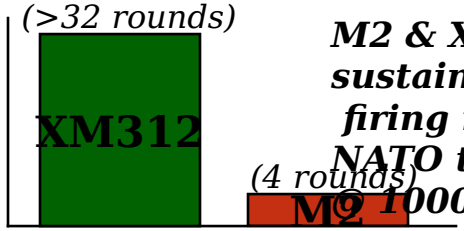
9X More Accurate



XM312 <1.5 mil

M2 >10 mil

8X Rounds on Target Improvement



M2 & XM312 40 round sustained firing rate. (standard NATO target @ 1000M)

66% Less Weight

XM312 43 lbs.

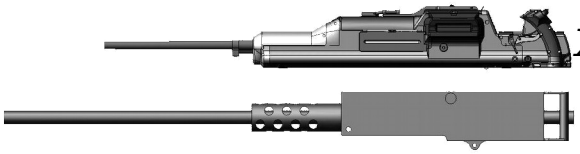
M2 128 lbs.

Fires Full Range of .50 CAL AMMO

12.7mm (.50 cal) M33 Ball
12.7mm (.50 cal) M20 Armor Piercing Incendiary Tracer (APIT)
12.7mm (.50 cal) M903 Sabot Launched Armor Piercing (SLAP)

XM312 capable of firing M2 qualified ammunition

18% Shorter



XM312 (53”)

M2 (65”)

Point, Aim & Fire Time Cut In Half

Advanced ergonomic T&E design and operation!

Advanced Crew Served Weapons

XM307

Kit Change at Unit Level

XM312

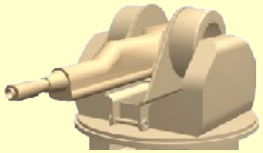
- Supports FCS Block 1 Defensive Armaments
- 25mm Munitions
  - Air-bursting Munitions Defeats Defilade Targets
  - Armor Piercing Munitions Defeats Light Armor
- Day/Night/All Weather Capable Fire Control

- Supports FCS Field Evaluation
- Supports Stryker BCT Fieldings
- XM312 is a Direct Replacement For 86 Year M2
- Accelerated Program Possible w/Funding
  - Delivers Start in 12 mo - 50 Wpns in 18 mo
  - Full-rate Production Line In 24 mo

- One Weapon Replaces Two Weapons – M2 & MK19
- Dual Feed Capability
- Light Weight
  - Can be Dismounted from Platform
  - 2-man Portable (50.3 lbs) vice 128 lb M2 or 144 lb MK19
- System Dispersion 1.5 mil
- No Headspace or Timing Adjustments
- Maximum Commonality between XM307 and XM312
- Minimized Future Logistic Impact
- Capable of Remote Operations

XM307 Potential Platforms

FCS Potential Roles



Common Close Support Weapon for:

- MCS
- FRMV
- NLOS-M
- NLOS-C
- C2V ??
- ICV ??
- R&SV ??

FRMV

NLOS-C

C2V

FTTS

25mm

Replace Parts

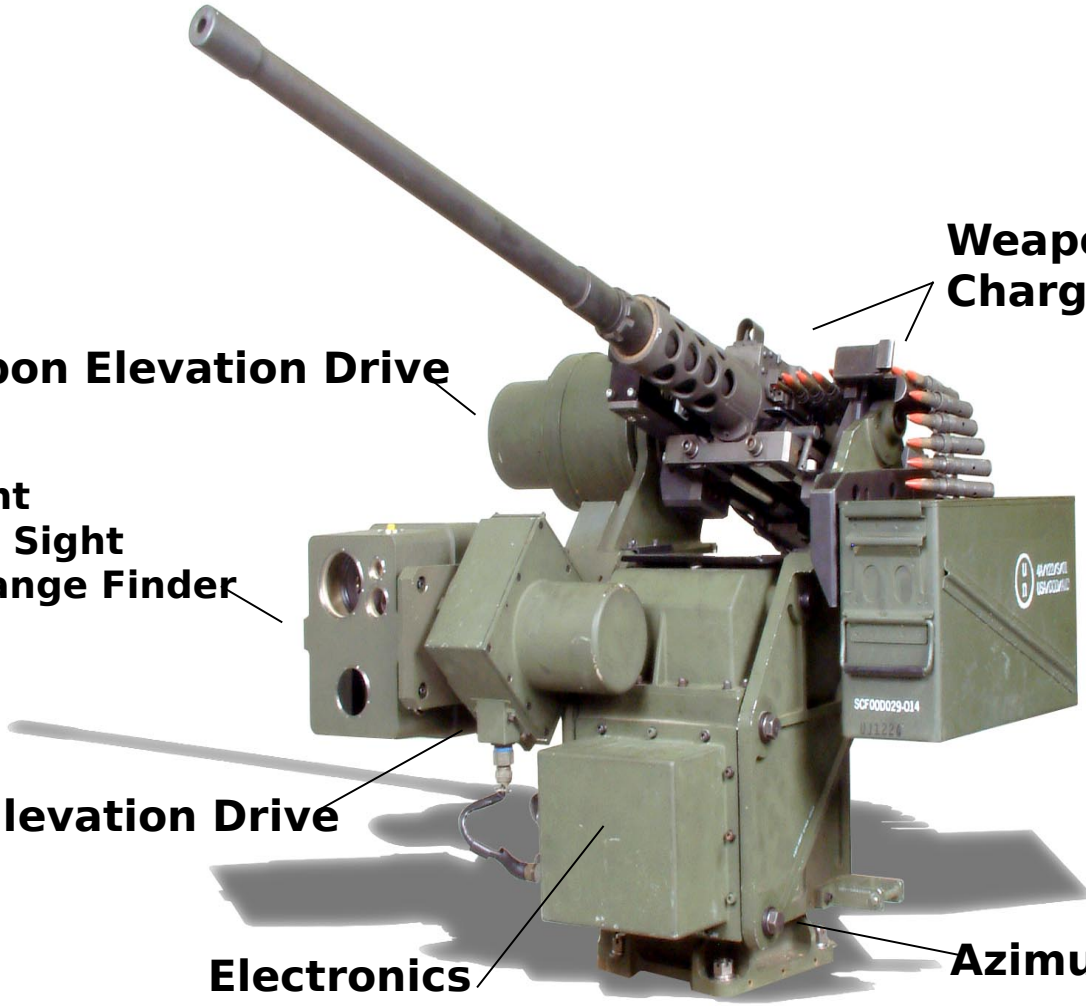
.50 Cal

- **Fire on the Move with Stabilized Mount (CROWS)**
- **Minimal Interior Vehicle Space Claim**
- **Dual Feed Capability**
- **Capable of Remote Operations**
- **Dismountable**
  - **Light Weight – 2 Man Portable**
  - **Land Warrior Ready**
- **Smaller Logistical Footprint**

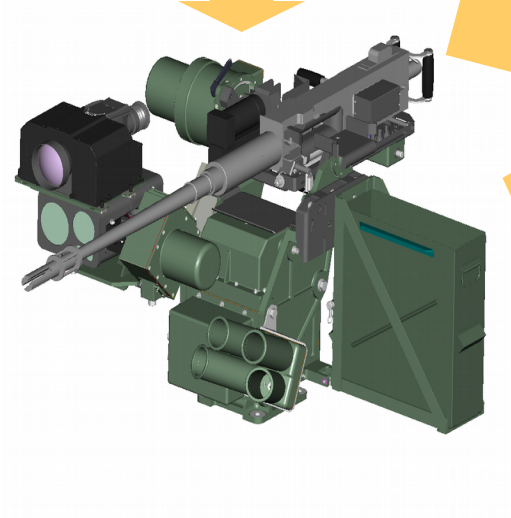
One Weapon
Replaces Two Weapons
M2 and MK19

Other Platforms

CROWS, XM101


Weapon Cradle & Charger
Weapon Elevation Drive
EFCS-T
•Day Sight
•Thermal Sight
•Laser Range Finder
Sight Elevation Drive
Electronics
Azimuth Drive

Common Remotely Operated Weapons Station (CROWS)



CURRENT PROGRAM STATUS

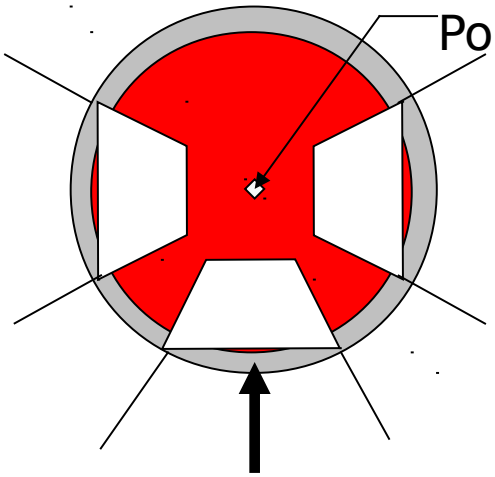
- ORD Approved 26 April 99
- Joint Program (MP School/USAF)
- Engineering Assessments On-going
- Two Prototypes Fabricated Under EMD Contract
- Initial Application Uparmored HMWWV
- R&D partially funded
- No production funding identified for MP's
- System weight requirement currently unattainable (395/320)

CAPABILITIES

- Provide A Remote Vehicle Mounting System For Machine Guns (MK19 GMG, .50 Cal M2, M240b, M249 And Xm307).
- Permits Under Armor Operation Of Existing And Future Crew Served Weapons.
- HTI Potential For Current And Future Platforms

XM1060
Thermobaric Munitions

- **Technology/Utility of Thermobarics Demonstrated**
- **Munitions Have Agility to Defeat a Range of Targets**
- **Pressure and Light Output Used in Combination to Defeat Enemy Vulnerabilities**



Projectile Flight Path

Legend
Red– 40MM Thermobaric Grenade
Ph/PK = 1
White-40MM HEDP Grenade
Ph/Pk >0.5<1.0

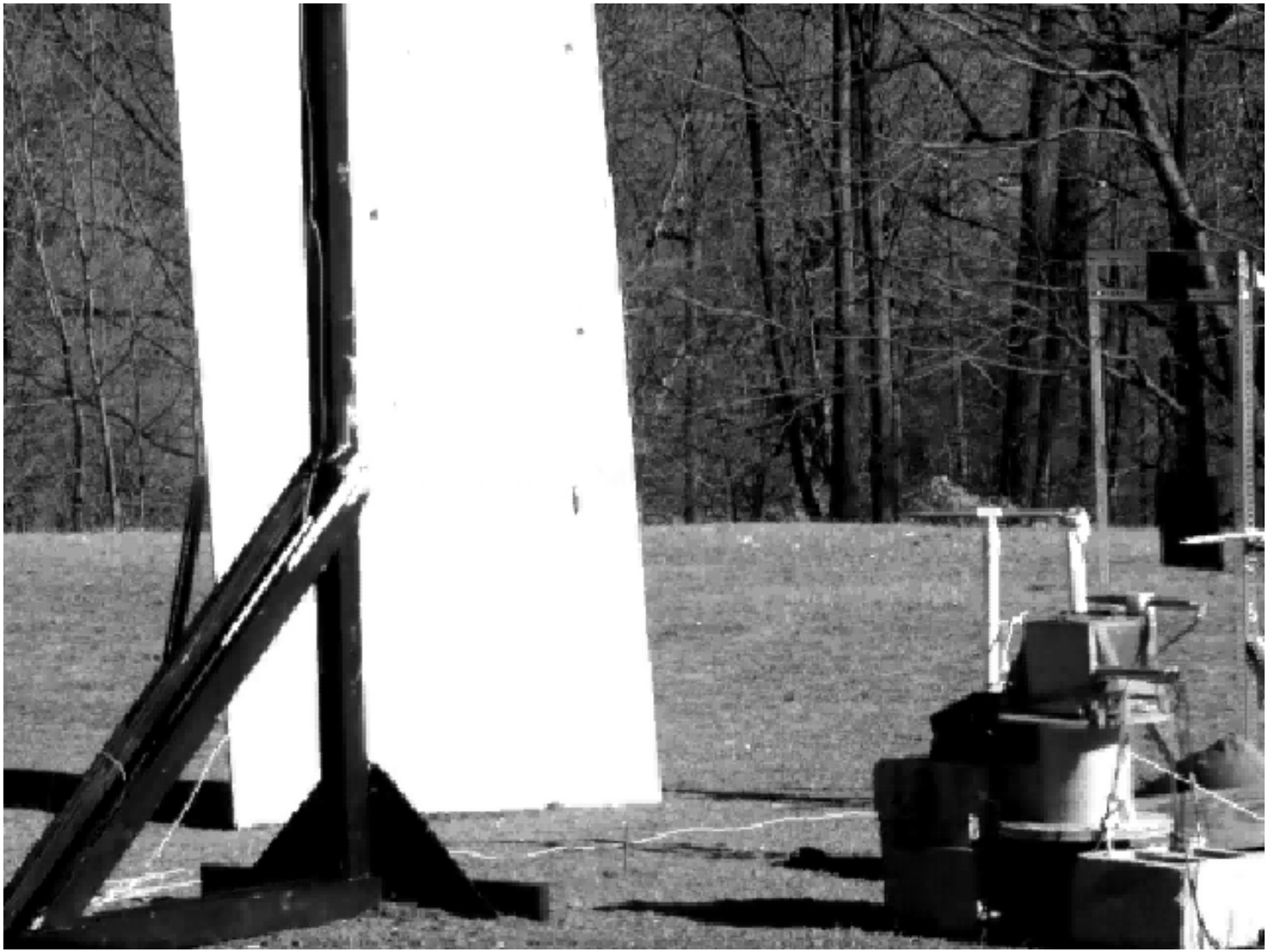
Thermobarics Provide Surgical Effectiveness

40mm Thermobaric Firing

XM1060 40mm Low Velocity TB Cartridge

40mm Cave Thermobaric Firing

25mm Static Firing



FY 04 Opportunities
PM CSW

- Semi Automatic Sniper Systems
- Light Weight Squad Automatic Weapon
- Sniper Spotter Scope and Stand
- XM107 Suppressor
- 200 rd Soft pack for SAW

PRODUCT MANAGER
CREW SERVED WEAPONS

“ When the smoke cleared away it was the man with the Sword, or the Crossbow, or the Rifle, who settled the final issue on the field.”

George C. Marshall